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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 17.6395 Seconds

(without alignments)
680.911 Million cell updates/sec

Title: US-09-622-613b-21

Perfect score: 605
Sequence: 1 MOWMATEFOOKHIIINTPLICN.....ICVKECENQYVHFAIGRCRP 111

Scoring table:

BLSUM62
Gapop 10.0, Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

1: Published Applications-AA.*
2: /cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB_PEP.*
3: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB_PEP.*
4: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB_PEP.*
5: /cgn2_6/ptodata/1/pubppaa/US07_NEW_PUB_PEP.*
6: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB_PEP.*
7: /cgn2_6/ptodata/1/pubppaa/PCT07_PUBCOMB_PEP.*
8: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB_PEP.*
9: /cgn2_6/ptodata/1/pubppaa/US09_NEW_PUB_PEP.*
10: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB_PEP.*
11: /cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB_PEP.*
12: /cgn2_6/ptodata/1/pubppaa/US10_PUBCOMB_PEP.*
13: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB_PEP.*
14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB_PEP.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	605	100.0	111	9	US-09-948-391A-21 Sequence 21, Appl
2	605	100.0	111	9	US-09-948-391A-22 Sequence 22, Appl
3	596	58.5	110	9	US-09-948-391A-15 Sequence 15, Appl
4	596	58.5	111	9	US-09-948-391A-26 Sequence 26, Appl
5	595	58.3	111	9	US-09-948-391A-17 Sequence 17, Appl
6	594	58.2	110	9	US-09-948-391A-19 Sequence 19, Appl
7	591	57.7	110	9	US-09-948-391A-24 Sequence 24, Appl
8	282.5	46.7	105	9	US-09-948-391A-6 Sequence 6, Appl
9	278.5	46.0	105	9	US-10-153-882-2 Sequence 2, Appl
10	277.5	45.9	105	9	US-09-948-391A-13 Sequence 13, Appl
11	277.5	45.9	127	9	US-09-948-391A-28 Sequence 28, Appl
12	276.5	45.7	104	9	US-09-948-391A-2 Sequence 2, Appl
13	276.5	45.7	104	9	US-09-948-391A-4 Sequence 4, Appl
14	272.5	45.0	104	9	US-09-948-391A-11 Sequence 11, Appl
15	272.5	45.0	105	9	US-09-948-391A-8 Sequence 8, Appl
16	272.5	45.0	111	9	US-09-948-391A-9 Sequence 9, Appl
17	268.5	44.4	104	9	US-09-948-391A-1 Sequence 1, Appl
18	202	33.4	83	9	US-09-986-119-3 Sequence 3, Appl
19	161	36.6	169	12	US-10-016-447-2 Sequence 2, Appl

20	117	19.3	147	10	US-09-731-872-254 Sequence 254, App
21	114	18.8	124	12	US-10-016-447-5 Sequence 5, Appl
22	113	18.7	147	10	US-09-286-240-6 Sequence 6, Appl
23	113	18.7	147	10	US-09-863-777-2 Sequence 2, Appl
24	110.5	18.3	124	9	US-09-981-286A-8 Sequence 8, Appl
25	110	18.2	131	12	US-10-016-447-6 Sequence 6, Appl
26	86	14.2	161	9	US-10-001-876-197 Sequence 197, App
27	79	13.1	77	9	US-09-925-299-836 Sequence 836, App
28	79	13.1	77	10	US-09-925-299-836 Sequence 836, App
29	72	11.9	156	9	US-09-796-753-102 Sequence 102, App
30	72	11.9	156	9	US-09-796-753-118 Sequence 118, App
31	72	11.9	156	9	US-10-245-103-6 Sequence 60, Appl
32	72	11.9	156	9	US-10-245-107-60 Sequence 60, Appl
33	72	11.9	156	9	US-10-245-143-60 Sequence 60, Appl
34	72	11.9	156	9	US-10-245-771-60 Sequence 60, Appl
35	72	11.9	156	9	US-10-245-851-60 Sequence 60, Appl
36	72	11.9	156	9	US-10-245-883-60 Sequence 60, Appl
37	72	11.9	156	9	US-10-237-535-60 Sequence 60, Appl
38	72	11.9	156	9	US-10-238-183-60 Sequence 60, Appl
39	72	11.9	156	9	US-10-238-283-60 Sequence 60, Appl
40	72	11.9	156	9	US-10-245-055-60 Sequence 60, Appl
41	72	11.9	156	9	US-10-245-147-60 Sequence 60, Appl
42	72	11.9	156	9	US-10-245-730-60 Sequence 60, Appl
43	72	11.9	156	9	US-10-245-739-60 Sequence 60, Appl
44	72	11.9	156	9	US-10-246-210-60 Sequence 60, Appl
45	72	11.9	156	9	US-10-246-210-60 Sequence 60, Appl

ALIGNMENTS

RESULT 1
US-09-948-391A-21
Sequence 21, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE INFORMATION: Description of Artificial Sequence:Rana
OTHER INFORMATION: catesbiana ribonuclease with Met at position 1,
OTHER INFORMATION: Met231eu and Met581eu substitutions (recombinant
OTHER INFORMATION: Met(-1) RACORI Met221eu Met571eu)
US-09-948-391A-21
Query Match 100.0%; Score 605; DB 9; Length 111;
Best Local Similarity 100.0%; Pred. No. 1,1e-59;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MOWMATEFOOKHIIINTPLICNIIIDNNIYIVGCGCKRVNFIISATTVAICGIVNLAV 60
DB 1 MOWMATEFOOKHIIINTPLICNIIIDNNIYIVGCGCKRVNFIISATTVAICGIVNLAV 60
OY 61 LSTTRQLMTCRTSITPRCPYSSRTETNYICVKECENQYVHFAIGRCRP 111

Db 61 LSTTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 111

RESULT 2

US-09-948-391A-22
 : Sequence 22, Application US/09948391A
 : Publication No. US20030027311A1
 : GENERAL INFORMATION:
 : APPLICANT: Rybak, Susanna M.
 : APPLICANT: Newton, Dianne L.
 : APPLICANT: The United States of America
 : APPLICANT: as represented by The Secretary of the
 : TITLE OF INVENTION: Department of Health and Human Services
 : FILE REFERENCE: 015280-343110US
 : CURRENT APPLICATION NUMBER: US/09/948,391A
 : CURRENT FILING DATE: 2002-05-10
 : PRIOR APPLICATION NUMBER: US 60/079,751
 : PRIOR FILING DATE: 1998-03-27
 : PRIOR APPLICATION NUMBER: WO PCT/US99/06641
 : PRIOR FILING DATE: 1999-03-26
 : PRIOR APPLICATION NUMBER: US 09/622,613
 : PRIOR FILING DATE: 2000-08-17
 : NUMBER OF SEQ ID NOS: 43
 : SOFTWARE: PatentIn Ver. 2.0
 : SEQ ID NO 22
 : LENGTH: 117
 : TYPE: PRT
 : ORGANISM: Artificial Sequence
 : FEATURE:
 : OTHER INFORMATION: Description of Artificial Sequence:Rana
 : OTHER INFORMATION: catesbelana ribonuclease with (His)6 tag; Met at
 : OTHER INFORMATION: position 7, Met23Ileu and Met58Ileu substitutions
 : OTHER INFORMATION: (recombinant Met(-1) RacOR1 Met22Ileu Met57Ileu-(His)6)
 : US-09-948-391A-22

Query Match 100.0%; Score 605; DB 9; Length 117;
 Best Local Similarity 100.0%; Pred. No. 1,le-59;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOWMAFEQOKHIINTPIICNTILDNNIYIVGGCKRVNFTFISSATTVAKICGVINLNV 60
 : |||||||
 Db 7 MOWMAFEQOKHIINTPIICNTILDNNIYIVGGCKRVNFTFISSATTVAKICGVINLNV 66
 : |||||||
 QY 61 LSTTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 111
 : |||||||
 Db 67 LSTTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 117
 : |||||||

RESULT 3

US-09-948-391A-15
 : Sequence 15, Application US/09948391A
 : Publication No. US20030027311A1
 : GENERAL INFORMATION:
 : APPLICANT: Rybak, Susanna M.
 : APPLICANT: Newton, Dianne L.
 : APPLICANT: The United States of America
 : APPLICANT: as represented by The Secretary of the
 : TITLE OF INVENTION: Department of Health and Human Services
 : FILE REFERENCE: 015280-343110US
 : CURRENT APPLICATION NUMBER: US/09/948,391A
 : CURRENT FILING DATE: 2002-05-10
 : PRIOR APPLICATION NUMBER: US 60/079,751
 : PRIOR FILING DATE: 1998-03-27
 : PRIOR APPLICATION NUMBER: WO PCT/US99/06641
 : PRIOR FILING DATE: 1999-03-26
 : PRIOR APPLICATION NUMBER: US 09/622,613
 : PRIOR FILING DATE: 2000-08-17
 : NUMBER OF SEQ ID NOS: 43
 : SOFTWARE: PatentIn Ver. 2.0
 : SEQ ID NO 15

: LENGTH: 110
 : TYPE: PRT
 : ORGANISM: Artificial Sequence
 : FEATURE:
 : OTHER INFORMATION: Description of Artificial Sequence:Rana
 : OTHER INFORMATION: catesbelana oocyte ribonuclease (RacOR1) synthetic
 : OTHER INFORMATION: gene modified to use E. coli preferred codons
 : US-09-948-391A-15

Query Match 98.5%; Score 596; DB 9; Length 110;
 Best Local Similarity 98.2%; Pred. No. 1,le-58;
 Matches 108; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 MOWMAFEQOKHIINTPIICNTILDNNIYIVGGCKRVNFTFISSATTVAKICGVINLNV 61
 : |||||||
 Db 1 MOWMAFEQOKHIINTPIICNTIMNNIYIVGGCKRVNFTFISSATTVAKICGVINLNV 60
 : |||||||
 QY 62 STTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 111
 : |||||||
 Db 61 STTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 110
 : |||||||

RESULT 4

US-09-948-391A-26
 : Sequence 26, Application US/09948391A
 : Publication No. US20030027311A1
 : GENERAL INFORMATION:
 : APPLICANT: Rybak, Susanna M.
 : APPLICANT: Newton, Dianne L.
 : APPLICANT: The United States of America
 : APPLICANT: as represented by The Secretary of the
 : TITLE OF INVENTION: Department of Health and Human Services
 : FILE REFERENCE: 015280-343110US
 : CURRENT APPLICATION NUMBER: US/09/948,391A
 : CURRENT FILING DATE: 2002-05-10
 : PRIOR APPLICATION NUMBER: US 60/079,751
 : PRIOR FILING DATE: 1998-03-27
 : PRIOR APPLICATION NUMBER: WO PCT/US99/06641
 : PRIOR FILING DATE: 1999-03-26
 : PRIOR APPLICATION NUMBER: US 09/622,613
 : PRIOR FILING DATE: 2000-08-17
 : NUMBER OF SEQ ID NOS: 43
 : SOFTWARE: PatentIn Ver. 2.0
 : SEQ ID NO 26
 : LENGTH: 111
 : TYPE: PRT
 : ORGANISM: Artificial Sequence
 : FEATURE:
 : OTHER INFORMATION: Description of Artificial Sequence:Rana
 : OTHER INFORMATION: catesbelana ribonuclease with Met at position 1
 : OTHER INFORMATION: and Gln2Ser substitution (Met(-1) RacOR1 Q1S)
 : US-09-948-391A-26

Query Match 98.5%; Score 596; DB 9; Length 111;
 Best Local Similarity 97.3%; Pred. No. 1,le-58;
 Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MOWMAFEQOKHIINTPIICNTILDNNIYIVGGCKRVNFTFISSATTVAKICGVINLNV 60
 : |||||||
 Db 1 MOWMAFEQOKHIINTPIICNTIMNNIYIVGGCKRVNFTFISSATTVAKICGVINLNV 60
 : |||||||
 QY 61 LSTTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 111
 : |||||||
 Db 61 LSTTRFQNLNCTRTSITPRCPYSSRTETNYICVKCENQYVPHFAGIGRCP 111
 : |||||||

RESULT 5

US-09-948-391A-17
 : Sequence 17, Application US/09948391A
 : Publication No. US20030027311A1
 : GENERAL INFORMATION:
 : APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: NO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 17
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1
OTHER INFORMATION: (recombinant Met(-1) RacOR1)
US-09-948-391A-17

Query Match 98.3% Score 595; DB 9; Length 111;
Best Local Similarity 97.3%; Pred. No. 1.4e-58;
Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNMATEFOQKHIIINPTICNTILDNNIYIVGGCKRVNTEFISSATVKAICTGVINLV 60
DB 1 MNMATEFOQKHIIINPTICNTILDNNIYIVGGCKRVNTEFISSATVKAICTGVINLV 60
DB 61 LSTTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111
DB 61 LSTTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111

RESULT 6

US-09-948-391A-19
Sequence 19, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: NO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met22Leu and
OTHER INFORMATION: Met57Leu substitutions (recombinant RacOR1
OTHER INFORMATION: Met22Leu Met57Leu)
US-09-948-391A-19

Query Match 98.2% Score 594; DB 9; Length 110;

Best Local Similarity 99.1%; Pred. No. 1.8e-58;
Matches 109; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 MNMATEFOQKHIIINPTICNTILDNNIYIVGGCKRVNTEFISSATVKAICTGVINLV 61
DB 1 MNMATEFOQKHIIINPTICNTILDNNIYIVGGCKRVNTEFISSATVKAICTGVINLV 60
QY 62 STTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111
DB 61 STTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 110

RESULT 7

US-09-948-391A-24
Sequence 24, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: NO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with GluIns substitution
OTHER INFORMATION: (recombinant RacOR1 Q15)
US-09-948-391A-24

Query Match 97.7% Score 591; DB 9; Length 110;
Best Local Similarity 98.2%; Pred. No. 3.8e-58;
Matches 107; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 MNMATEFOQKHIIINPTICNTILDNNIYIVGGCKRVNTEFISSATVKAICTGVINLV 62
DB 2 MNMATEFOQKHIIINPTICNTILDNNIYIVGGCKRVNTEFISSATVKAICTGVINLV 61
QY 63 TTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111
DB 62 TTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 110

RESULT 8

US-09-948-391A-6
Sequence 6, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27

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: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO: 6
: LENGTH: 105
: TYPE: PRF
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant)
: OTHER INFORMATION: Met(-1) RAPPL1
US-09-948-391A-6

Query Match
: 46.7%; Score 282.5; DB 9; Length 105;
: Best Local Similarity 49.1%; Pred. No. 5.3e-24;
Matches 55; Conservative 16; Mismatches 32; Indels 9; Gaps 4;

QY 1 MONNATFOQKHIIINT-PIICNTILDNNIYIVGGCKRVNFTLISSATTYKAICTGVI-NL 58
DB 1 MODWLTFQKKHILTNRDVDCNNIMSTNLF---HCKDKNTFTYSRPEPYKAICKGIILASK 56
QY 59 NVLSTTRPOLNCTCTSTTPRCPPYSSRTETNYICVCKENQYPVHFAGIGRC 110
DB 57 NVLTTSEFYLSDC---NVTSRPKYKRLKKSNTFCVTCENQAPVHFVGVGHC 105

RESULT 9
US-10-153-882-2
: Sequence 2, Application US/10153882
: Publication No. US2003009629A1
: GENERAL INFORMATION:
: APPLICANT: GOLDENBERG, David M.
: APPLICANT: HANSEN, Hans
: APPLICANT: LEUNG, Shui-on
: TITLE OF INVENTION: RECOMBINANT ONCOMASE, AND CHEMICAL CONJUGATES AND
: TITLE OF INVENTION: FUSION PROTEINS OF RECOMBINANT ONCOMASE
: FILE REFERENCE: 018733/0913
: CURRENT APPLICATION NUMBER: US/10/153,882
: CURRENT FILING DATE: 2002-05-24
: PRIOR APPLICATION NUMBER: US/09/265,901
: PRIOR FILING DATE: 1999-03-11
: PRIOR APPLICATION NUMBER: US 60/077,557
: PRIOR FILING DATE: 1998-03-11
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO: 2
: LENGTH: 105
: TYPE: PRF
: ORGANISM: Rana pipiens
US-10-153-882-2

Query Match
: 46.0%; Score 278.5; DB 9; Length 105;
: Best Local Similarity 49.1%; Pred. No. 1.5e-23;
Matches 55; Conservative 16; Mismatches 32; Indels 9; Gaps 4;

QY 1 MONNATFOQKHIIINT-PIICNTILDNNIYIVGGCKRVNFTLISSATTYKAICTGVI-NL 58
DB 1 MODWLTFQKKHILTNRDVDCNNIMSTNLF---HCKDKNTFTYSRPEPYKAICKGIILASK 56
QY 59 NVLSTTRPOLNCTCTSTTPRCPPYSSRTETNYICVCKENQYPVHFAGIGRC 110
DB 57 NVLTTSEFYLSDC---NVTSRPKYKRLKKSNTFCVTCENQAPVHFVGVGHC 105

RESULT 10
US-09-948-391A-13
: Sequence 13, Application US/09948391A
: Publication No. US2003002731A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.

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: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor RNase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO: 13
: LENGTH: 105
: TYPE: PRF
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1 and Gln2Ser
: OTHER INFORMATION: substitution (recombinant Met(-1) RAPPL1 Q1S)
US-09-948-391A-13

Query Match
: 45.9%; Score 277.5; DB 9; Length 105;
: Best Local Similarity 48.2%; Pred. No. 1.9e-23;
Matches 54; Conservative 16; Mismatches 33; Indels 9; Gaps 4;

QY 1 MONNATFOQKHIIINT-PIICNTILDNNIYIVGGCKRVNFTLISSATTYKAICTGVI-NL 58
DB 1 MSDWLTFQKKHILTNRDVDCNNIMSTNLF---HCKDKNTFTYSRPEPYKAICKGIILASK 56
QY 59 NVLSTTRPOLNCTCTSTTPRCPPYSSRTETNYICVCKENQYPVHFAGIGRC 110
DB 57 NVLTTSEFYLSDC---NVTSRPKYKRLKKSNTFCVTCENQAPVHFVGVGHC 105

RESULT 11
US-09-948-391A-28
: Sequence 28, Application US/09948391A
: Publication No. US2003002731A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor RNase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO: 28
: LENGTH: 127
: TYPE: PRF
: ORGANISM: Rana pipiens
: FEATURE:
: OTHER INFORMATION: Rana pipiens ribonuclease (RAPPL1) Clone 5a1b cDNA
: OTHER INFORMATION: Insert
US-09-948-391A-28

Query Match
: 45.9%; Score 277.5; DB 9; Length 127;
: Best Local Similarity 48.6%; Pred. No. 2.4e-23;
Matches 54; Conservative 16; Mismatches 32; Indels 9; Gaps 4;

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Oy	2	QNAATFOOKHIIIMT-PICTIITLDNNYIYGCCCKRVNFIISATTVAACIGV-NLN	59
		: : : : : : : : : : : : : : : : : :	
Db	24	QDMWTFPKKILTTTRVDCCNNIMSTLDF-----HCKKNFIFYSRPEPAVALCKGLIASLN	79
Oy	60	VLSYTRQLMTCTRITSITTPAPCPYSRSRETNICYCVCENQDPYHNFGAGICRC	110
		: : : : : : : : : : : : : : : : : :	
Db	80	VLTTSSEYLYSDC---NWTSRPCKYKLTKSTSNFFCVCEENNADPHNFVGAVHC	127

US-09-948-391A-2
RESULT 12
Sequence 2, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Rnase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079, 751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622, 613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 104
TYPE: PRT
ORGANISM: Rana pipiens
FEATURE:
OTHER INFORMATION: ribonuclease (RNP1)
US-09-948-391A-2

RESULT 13
 US-09-948-391A-4
 Sequence 4, Application US/09948391A
 Publication No. US20030027311A1
 GENERAL INFORMATION:
 APPLICANT: Rybak, Susanna M.
 APPLICANT: Newton, Dianne L.
 APPLICANT: The United States of America
 APPLICANT: as represented by the Secretary of the
 TITLE OF INVENTION: Department of Health and Human Services
 FILE REFERENCE: 015280-343110US
 CURRENT APPLICATION NUMBER: US/09/948,391A
 CURRENT FILING DATE: 2002-05-10
 PRIOR APPLICATION NUMBER: US 60/079,751
 PRIOR FILING DATE: 1998-03-27
 PRIOR APPLICATION NUMBER: WO PCT/US99/06641
 PRIOR FILING DATE: 1999-03-26
 PRIOR APPLICATION NUMBER: US 09/622,613
 PRIOR FILING DATE: 2000-08-17

```

: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: patentIn Ver. 2.0
: SEQ ID NO 4
: LENGTH: 104
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met23Leu substitution
: OTHER INFORMATION: (recombinant RapiR1 Met23Leu)
US-09-948-391A-4

```

```

: RESULT 14
: US-09-948-391A-11
: Sequence 11, Application US/09948391A
: Publication NO. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948, 391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079, 751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 11
:
: LENGTH: 104
:
: TYPE: PRT
:
: ORGANISM: Artificial Sequence
:
: FEATURE:
:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Glu1ser substitution
: OTHER INFORMATION: (recombinant RApPL1 Q1S)
: US-09-948-391A-11

```

RESULT 15
US-09-948-391A-8
; Sequence 8, Application US/09948391A

